

# DISASTER STREAM DEBRIS REMOVAL: Report to the Joint Oversight Committee on Agriculture, Natural Resources and Environment

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## Background: Stream Debris Activities for Previous Storms

- 2011: Hurricane Isabel and Spring Tornados
  - Assistance requested from local governments
  - \$850,000 from Division of Water Resources Grants
  - 21 local sponsors
  - 26 projects
- Hurricane Matthew:
  - Total Requests: \$42,031,690
  - \$22.9M allocated for stream debris and related.
  - 55 local sponsors
    - 28 Soil & Water Conservation Districts
    - 7 County Government
    - 7 Municipalities
    - 2 Non-Profit Organizations
  - \$5.1M Reimbursed to date
    - Feet Planned: 8,171,468
    - Feet Completed: 3,742,989

## Priorities:

1. Stream Debris Removal
2. In-Stream Sediment Removal
3. Streambank Stabilization with Vegetation Cover
4. Stream Channel Restoration

# Process:

1. Local Sponsors inventory damaged stream segments
2. Request funding when availability announced
3. Division evaluates requests vs. available funds
4. Local sponsors are notified of final allocation by Soil & Water Commission
5. Local sponsor revises request to work on priority stream segments
6. Division develops scope of work and initiate contracts with local sponsors
7. Local sponsors advertise and contract with vendors
8. Local sponsor is responsible for supervision of stream removal activities.
9. Division inspects each completed segment.
10. Local sponsor requests reimbursement for completed segments.
11. Prioritize additional funds to those sponsors that have completed 1/3 work

# Challenges:

- Spawning Season: DMF or WRC may prohibit in-stream work during spawning season for anadromous fish (may be 3-4 months)
- US Army Corps of Engineer requirements for in-stream work
- Weather – high water levels prevent work because contractors can't see all material that needs removal.
- BEAVERS – local sponsors must hire a trapper if streams have beavers/beaver dams.
- Available contractors for magnitude of work
- Working conditions – contractors often prefer to work in winter when snakes, mosquitos are less prevalent.
- Safety
- Lack of dedicated staff
- Need for long-term maintenance funding

## Rowland Creek – Beaufort SWCD



Before



After



## Swift Creek– Craven SWCD



Before



After

# Hurricane Florence: Coordination with Federal Funding (USDA, FEMA?)

- \$10M – Non-Federal match for USDA NRCS EWP
  - USDA Program for Watershed Restoration
  - **Eligibility on the basis of a threat to health, life or property**
    - Stream debris removal
    - Sediment removal
    - Streambank stabilization
- "Not all removal of storm debris or repair of storm damage is eligible for EWP assistance. NRCS may determine on a case-by-case basis that some storm damage or watershed impairments do meet the EWP eligibility requirements."





## EWP – Local Sponsor Responsibilities

- Providing land rights to do repair work;
- Securing necessary permits;
- Accomplish the installation of work;
- Perform any necessary operation and maintenance;
- Furnish the local cost share as a percent of the construction cost of eligible measures covered by the agreement.
- NonFederal Match Requirement:
  - **10%:** Bladen, Duplin, Greene, Hyde, Jones, Lenoir, Richmond, Robeson, Sampson, Scotland, Wayne
  - **25%:** Alamance, Alleghany, Anson, Ashe, Beaufort, Bertie, Brunswick, Cabarrus, Carteret, Chatham, Columbus, Craven, Cumberland, Dare, Davidson, Granville, Harnett, Hoke, Johnston, Lee, Madison, Montgomery, Moore, New Hanover, Onslow, Orange, Pamlico, Pender, Person, Pitt, Polk, Randolph, Rowan, Stanly, Tyrrell, Union, Wilson, Yancey
- *Local sponsors must submit application letter to USDA NRCS by November 15<sup>th</sup> (Anticipate extension to December 31, 2018)*

Questions?



Stream Debris Removal Recommended Contract Awards						
Stream Debris Removal Recommended Contract Awards	County	Total Allocation	Payments to Date	Feet Planned	Feet Completed	Beaver Dams Removed
Beaufort Soil & Water Conservation District	Beaufort	\$ 311,909	\$ 67,222.00	232,610	130,498	-
Bertie County	Bertie	\$ 13,798	\$ 12,148.00	10,000	10,000	3
Bertie, Hertford, Northampton Drainage District #1	Multiple	\$ 62,000	\$ 12,500.00	110,350	114,720	-
Bladen Soil & Water Conservation District	Bladen	\$ 662,813	\$ -	325,943		-
Camden Soil & Water Conservation District	Camden	\$ 36,500	\$ 36,500.00	29,768	29,768	-
Carteret Soil & Water Conservation District	Carteret	\$ 432,414	\$ 278,394.30	123,547	123,547	2
Chicod Creek Drainage District (#9)	Pitt	\$ 120,429	\$ 94,807.30	41,593	41,593	4
Chowan Soil & Water Conservation District	Chowan	\$ 132,614	\$ 44,247.64	40,955	20,188	3
City of Goldsboro	Wayne	\$ 105,355	\$ 43,399.80	75,120	42,142	-
City of Kinston	Lenoir	\$ 77,813	\$ 30,870.50	150	150	-
City of Wilson	Wilson	\$ 67,750	\$ -	12,780	-	-
Coharie Intra-Tribal Council	Sampson	\$ 727,219	\$ 108,269.60	105,228	48,664	-
Columbus Soil & Water Conservation District	Columbus	\$ 1,701,025	\$ 753,691.80	874,526	643,664	4
County of Pitt	Pitt	\$ 561,162	\$ -	144,341	-	-
Craven Soil and Water Conservation District	Craven	\$ 709,229	\$ 168,636.00	415,440	120,552	29
Cumberland County Emergency Services	Cumberland	\$ 919,408	\$ -	307,491	-	-
Cumberland Soil & Water Conservation District	Cumberland	\$ 508,292	\$ 27,674.00	78,931	4,385	-
Currituck Soil & Water Conservation District	Currituck	\$ 157,060	\$ 84,278.00	93,150	64,920	1
Dare Soil and Water Conservation District	Dare	\$ 227,869	\$ -	35,815	-	-
Duplin Soil & Water Conservation District	Duplin	\$ 2,315,834	\$ 579,716.12	507,903	293,070	147
Edgecombe SWCD	Edgecombe	\$ 693,949	\$ -	261,245	-	-
Friends of Sampson County Waterways	Sampson	\$ 637,129	\$ 127,155.60	145,084	51,480	20
Gates County	Gates	\$ 84,720	\$ 29,262.50	53,080	31,980	-
Greene County	Greene	\$ 646,856	\$ 164,372.32	215,333	121,440	-
Grindle Creek Drainage District (#2)	Pitt	\$ 27,400	\$ 27,400.00	62,302	62,302	5
Hertford Drainage District #1	Hertford	\$ 60,000		74,623	-	-
Hyde Soil & Water Conservation	Hyde	\$ 1,150,276	\$ 116,402.65	245,128	101,148	-
Johnson Mill Tale Drainage District	Pitt	\$ 9,222	\$ 9,222.00	6,993	6,993	-
Jones County	Jones	\$ 864,209	\$ 343,450.80	290,419	226,325	-
Joyce Creek Watershed District	Camden	\$ 20,000	\$ 20,000.00	47,500	47,500	-
Lee Soil & Water Conservation District	Lee	\$ 109,135	\$ 10,003.50	1,200	-	-
Lenoir Soil and Water Conservation District	Lenoir	\$ 1,394,008	\$ 244,749.41	455,425	117,074	84
Lyon Swamp Drainage District	Multiple	\$ 216,648	\$ 127,923.80	114,808	120,042	-
Martin Soil & Water Conservation District	Martin	\$ 554,176	\$ 306,845.00	249,200	249,200	54
Moccasin Creek Service District Board	Johnston	\$ 225,500	\$ 102,250.00	135,000	118,000	-
Moore County (Withdrawn)	Moore	\$ -	\$ -			
Nash SWCD	Nash	\$ 284,840	\$ -	90,000	-	-
New Hanover Soil & Water Conservation District	New Hanover	\$ 227,540	\$ -	56,500	-	-
Onslow SWCD	Onslow	\$ 35,000	\$ 4,850.00	60	-	-
Pamlico Soil & Water Conservation District	Pamlico	\$ 661,292	\$ 308,440.50	173,780	137,085	1
Pasquotank Soil and Water Conservation District	Pasquotank	\$ 393,952	\$ 393,623.37	209,175	244,750	-

Pender Soil & Water Conservation District	Pender	\$ 286,418	\$ -	-	-	-
Perquimans Soil & Water Conservation District	Perquimans	\$ 56,761	\$ 28,337.44	40,543	23,307	3
Robeson County Drainage District	Robeson	\$ 322,966	\$ 222,355.00	134,401	140,374	10
Robeson SWCD	Robeson	\$ 825,632	\$ -	206,408	-	-
Swift Creek Drainage District (#3 & #7)	Pitt	\$ 8,650	\$ 8,650.00	8,650	8,650	-
Town of Columbia	Tyrrell	\$ 33,300	\$ -	550	-	-
Town of Kitty Hawk	Dare	\$ 245,380	\$ 201,235.80	134,760	61,540	-
Town of Pinetops	Edgecombe	\$ 106,815	\$ -	35,605	-	-
Town of Smithfield	Johnston	\$ 148,890	\$ -	23,865	-	-
Tyrrell Soil & Water Conservation District	Tyrrell	\$ 1,119,071	\$ 150,189.22	164,159	127,279	-
Wake SWCD	Wake	\$ 100,000	\$ -	1,200	-	-
Washington SWCD	Washington	\$ 210,397	\$ -	105,908	-	-
Wayne County Water District - Bear Creek Watershed	Wayne	\$ 117,166	\$ 52,792.00	130,186	58,659	-
Wayne Soil & Water Conservation District	Wayne	\$ 666,877	\$ -	555,927	-	-
Wilson County	Wilson	\$ 489,752	\$ -	176,811	-	-
		\$ 22,884,421		8,171,468	3,742,989	370